FIG. 1

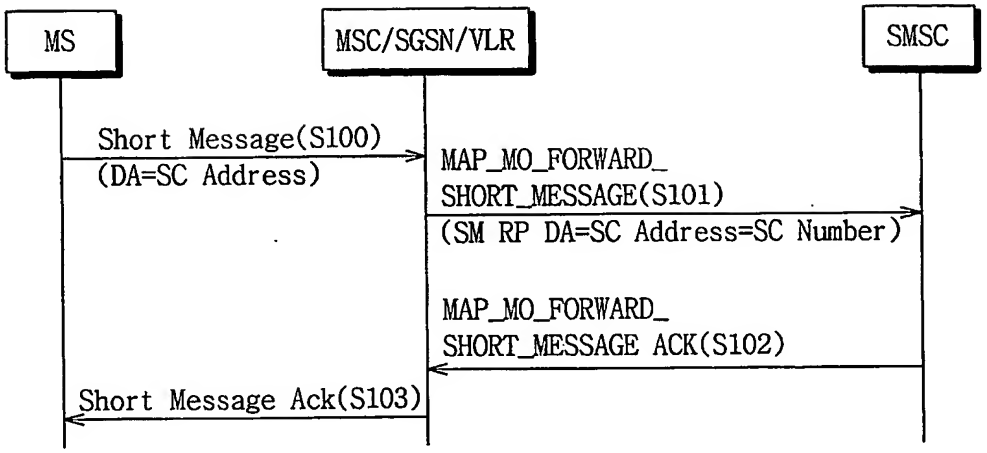

MS
MSC/SGSN/VLR
SMSC
Short Message(S100)
(DA=SC Address)
MAP_MO_FORWARD_
SHORT_MESSAGE(S101)
(SM RP DA=SC Address=SC Number)
MAP_MO_FORWARD_
SHORT_MESSAGE ACK(S102)
Short Message Ack(S103)

FIG. 2

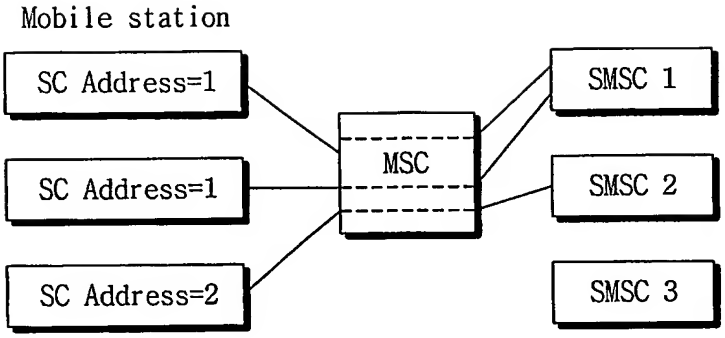

Mobile station
SC Address=1
SC Address=1
SC Address=2
MSC
SMSC 1
SMSC 2
SMSC 3

FIG. 3

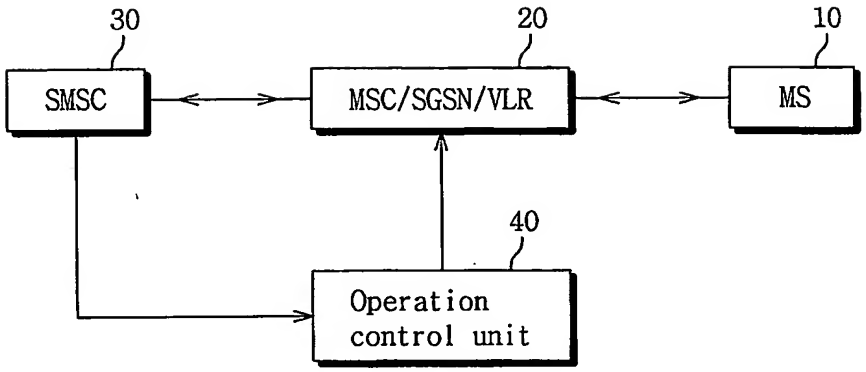


FIG. 4

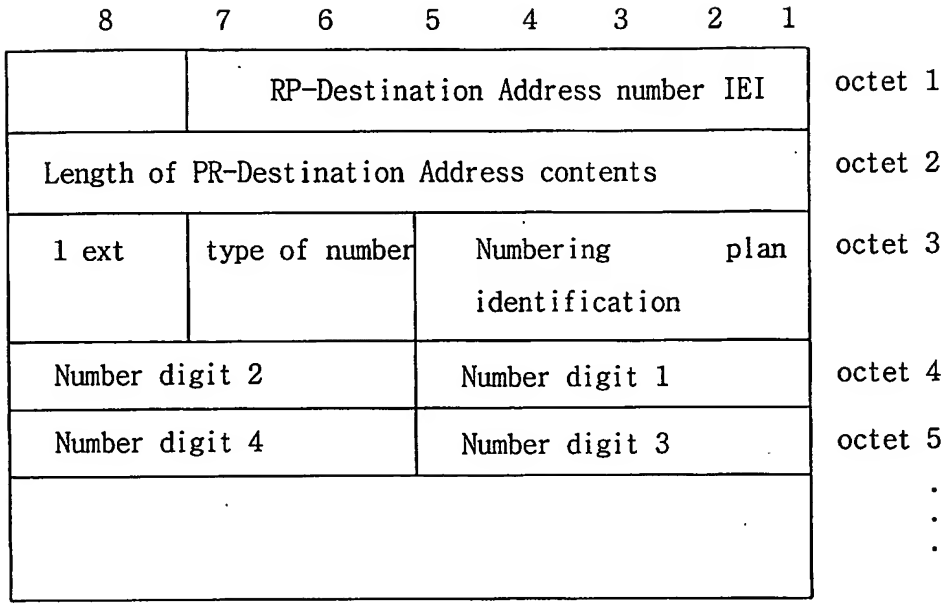

8 7 6 5 4 3 2 1
RP-Destination Address number IEI
octet 1
Length of PR-Destination Address contents
octet 2
1 ext
type of number
Numbering plan identification
octet 3
Number digit 2
Number digit 1
octet 4
Number digit 4
Number digit 3
octet 5

FIG. 5

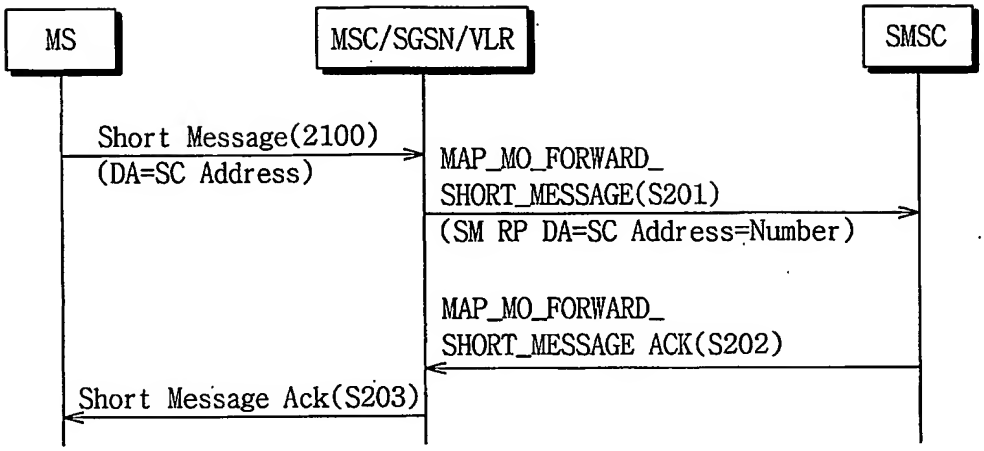

MS
MSC/SGSN/VLR
SMSC
Short Message(2100)
(DA=SC Address)
MAP_MO_FORWARD_
SHORT_MESSAGE(S201)
(SM RP DA=SC Address=Number)
MAP_MO_FORWARD_
SHORT_MESSAGE ACK(S202)
Short Message Ack(S203)

FIG. 6

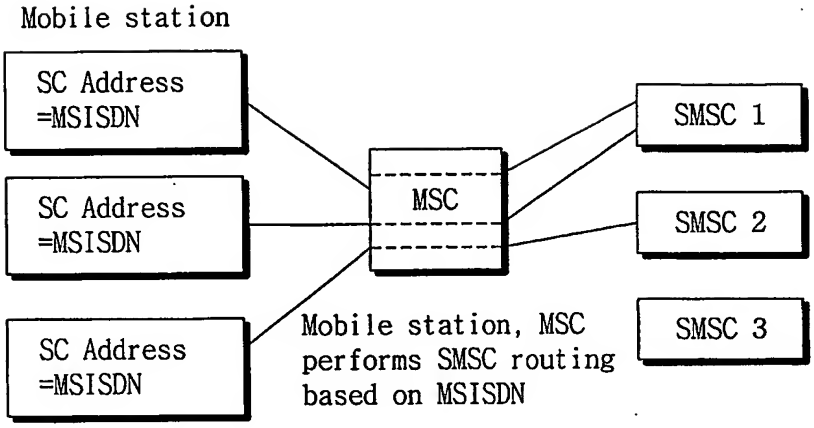

Mobile station
SC Address =MSISDN
SC Address =MSISDN
SC Address =MSISDN
MSC
SMSC 1
SMSC 2
SMSC 3
Mobile station, MSC performs SMSC routing based on MSISDN

FIG. 7

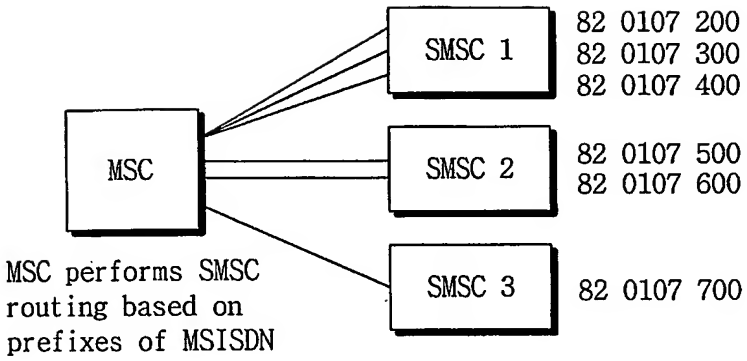
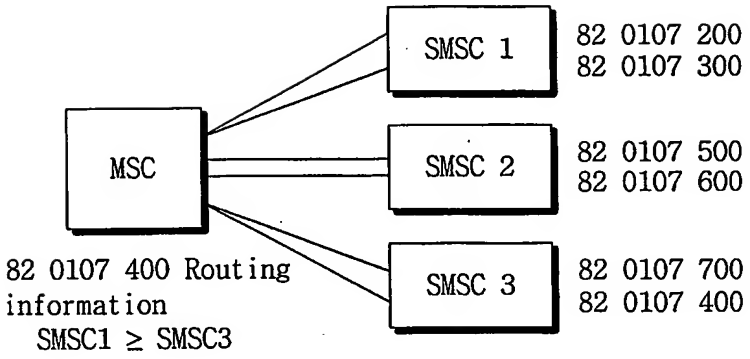

MSC
SMSC 1
SMSC 2
SMSC 3
82 0107 200
82 0107 300
82 0107 400
82 0107 500
82 0107 600
82 0107 700
MSC performs SMSC routing based on prefixes of MSISDN

FIG. 8


SMSC 1
82 0107 200
82 0107 300
MSC
SMSC 2
82 0107 500
82 0107 600
SMSC 3
82 0107 700
82 0107 400
82 0107 400 Routing information
SMSC1 ≥ SMSC3